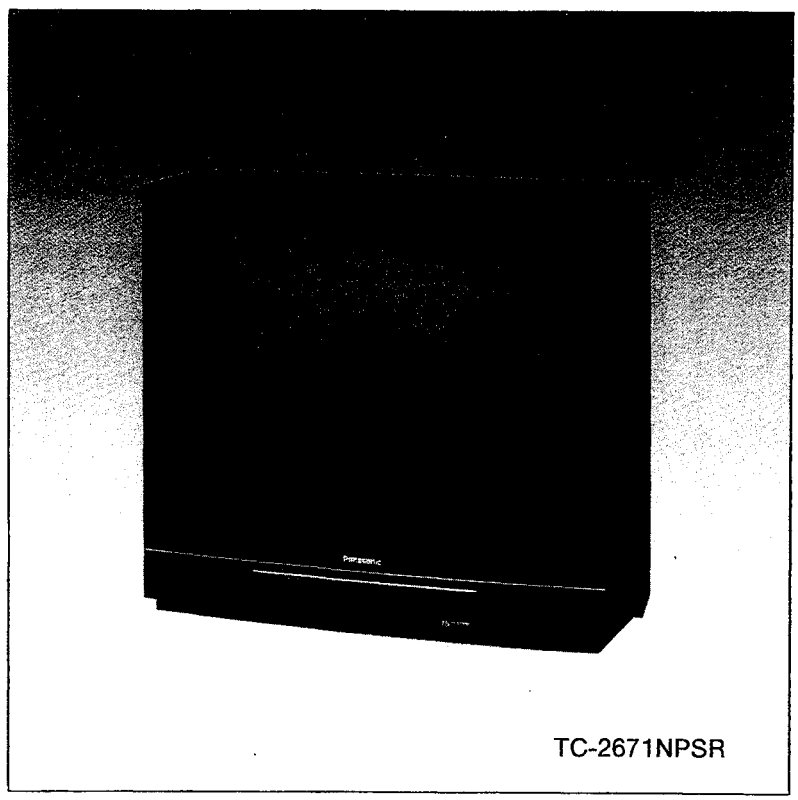
PANA-04596

Panasonic®

Color Television

with Remote Control

Model Nos. TC-2171NPSR
TC-2671NPSR



TC-2671NPSR

Operating Instructions

Please read these instructions completely before operating this set.

Printed by: Schaltungsdienst Lange, Berlin (Germany)

TQB620495

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Operating Instructions

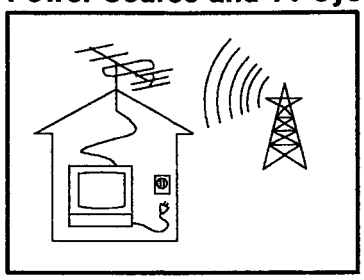
Please read these instructions completely before operating this set.

Dear Panasonic Customer

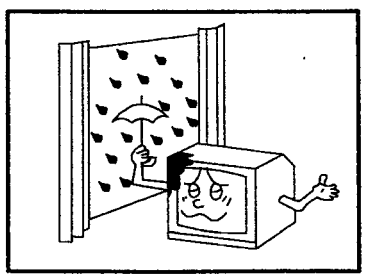
Welcome to the Panasonic family of customers.
We hope that you will have many years of enjoyment from your new color television set.

Warning and Cautions

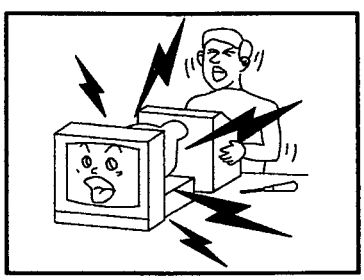
Power Source and TV System



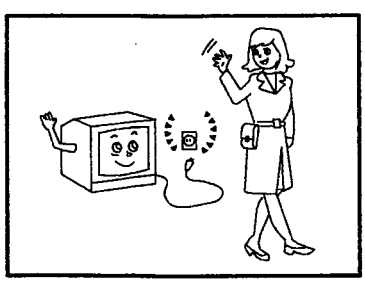
This TV set can be operated on AC 120 - 240V, 50 / 60Hz and it is provided with án automatic voltage selector. It is designed exclusively for broadcasts systems PAL/SECAM (B ,G), PAL (I), PAL/SECAM (D), SECAM (K1), SECAM (K), NTSC (M).



To prevent damage which might result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.

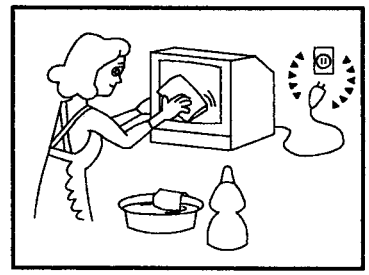


High Voltage :
Do not remove the rear cover, as live parts are accessible when it is removed.

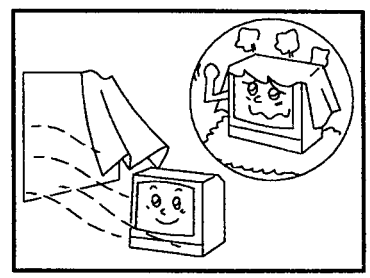


Remove the plug from the wall outlet when the TV set is not used for a prolonged period of time.

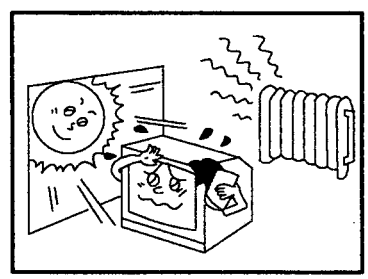
Cabinet and Picture Tube Care



The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.



Adequate ventilation is essential to prevent failure of electrical components.



Avoid exposing the TV set to direct sunlight and other sources of heat.

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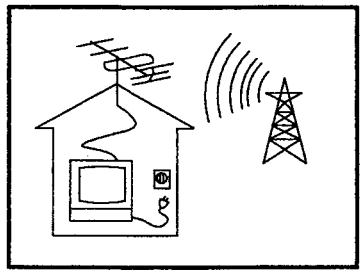
Lieber Panasonic-Kunde:

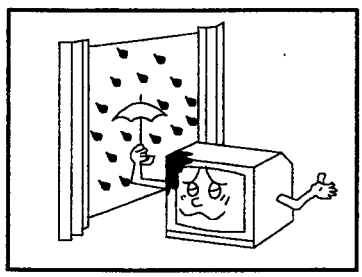
Wir begrüßen Sie recht herzlich im Kreise der Panasonic-Freunde und wünschen Ihnen viel Freude an Ihrem neuen Farbfernseher.

Warnhinweis und Vorsichtsmassnahmen

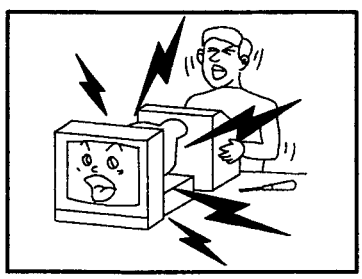
Stromanschluß und Fernseh-System



Das Gerät wird mit Wechselstrom 120 - 240 Volt, 50 / 60 Hertz betrieben. Es ist für den Empfang nach den Systemn PAL B, G, I, D / SECAM B, G, D, K, K1 / NTSC-Standard eingerichtet.

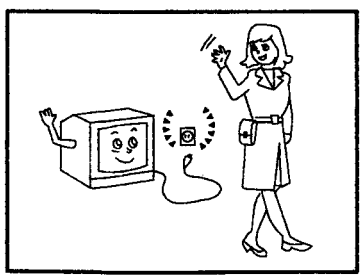


Um Schäden zu vermeiden, darf das Gerät nicht mit Wasser oder übermäßiger Feuchtigkeit in Berührung kommen.



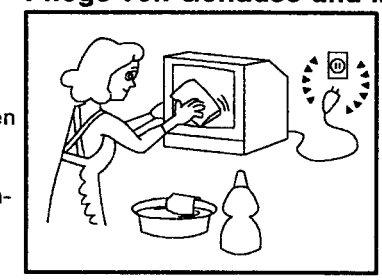
Hochspannung : Lebensgefahr

Wenn man die Abdeckung an der Rückseite entfernt, liegen stromführende Teile offen. Die Rückwand deshalb auf keinen Fall entfernen.

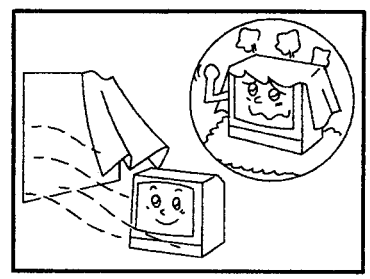


Wenn das Fernsehgerät für längere Zeit nicht benutzt wird, ziehen Sie bitte den Netzstecker heraus. (Urlaub etc.)

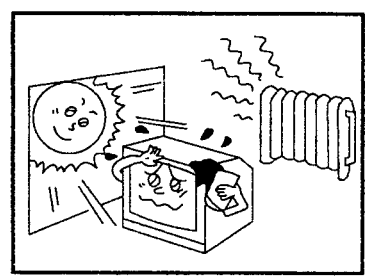
Pflege von Gehäuse und Mattscheibe



Man pflegt Gehäuse und Mattscheibe, indem man sie einfach mit einem sauberen, weichen Tuch abwischt, das mit Reinigungsmittel und Wasser angefeuchtet wird. Keine Lösungen verwenden, die Benzol oder Petroleum enthalten oder ein Tuch, das chemisch vorbehandelt ist. Aus Sicherheitsgründen ziehe man den Netzstecker vor dem Reinigen heraus.



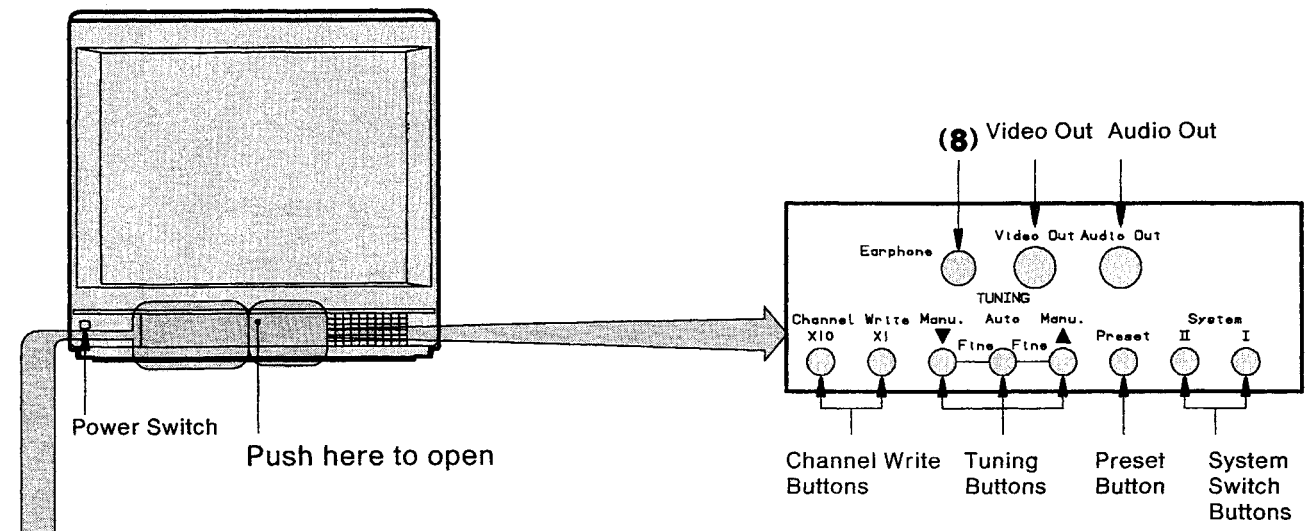
Eine angemessene Belüftung ist für das einwandfreie Funktionieren der elektrischen Bauteile von wesentlicher Bedeutung.



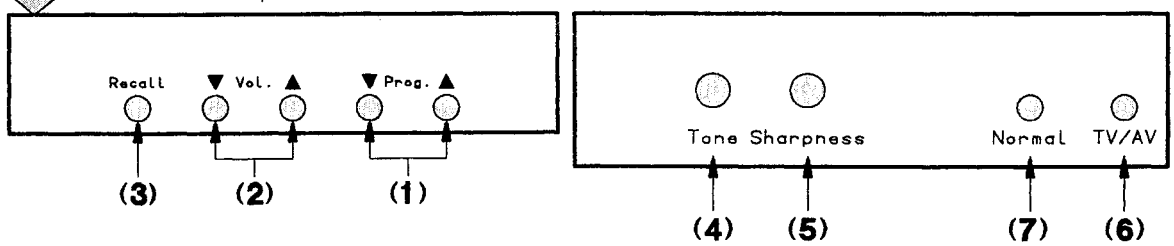
Das Fernsehgerät vor direkter Sonne und anderen Wärmequellen schützen.

Location of Controls

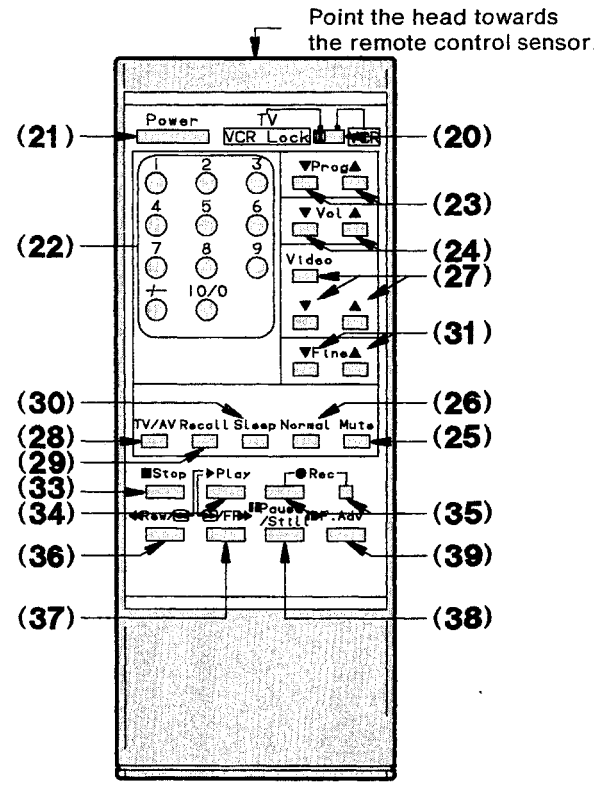
(Front View) (TC-2171NPSR)



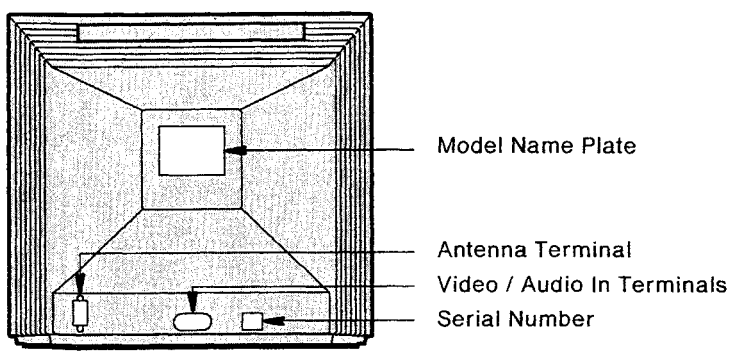
(Behind the door)



(Remote Control)

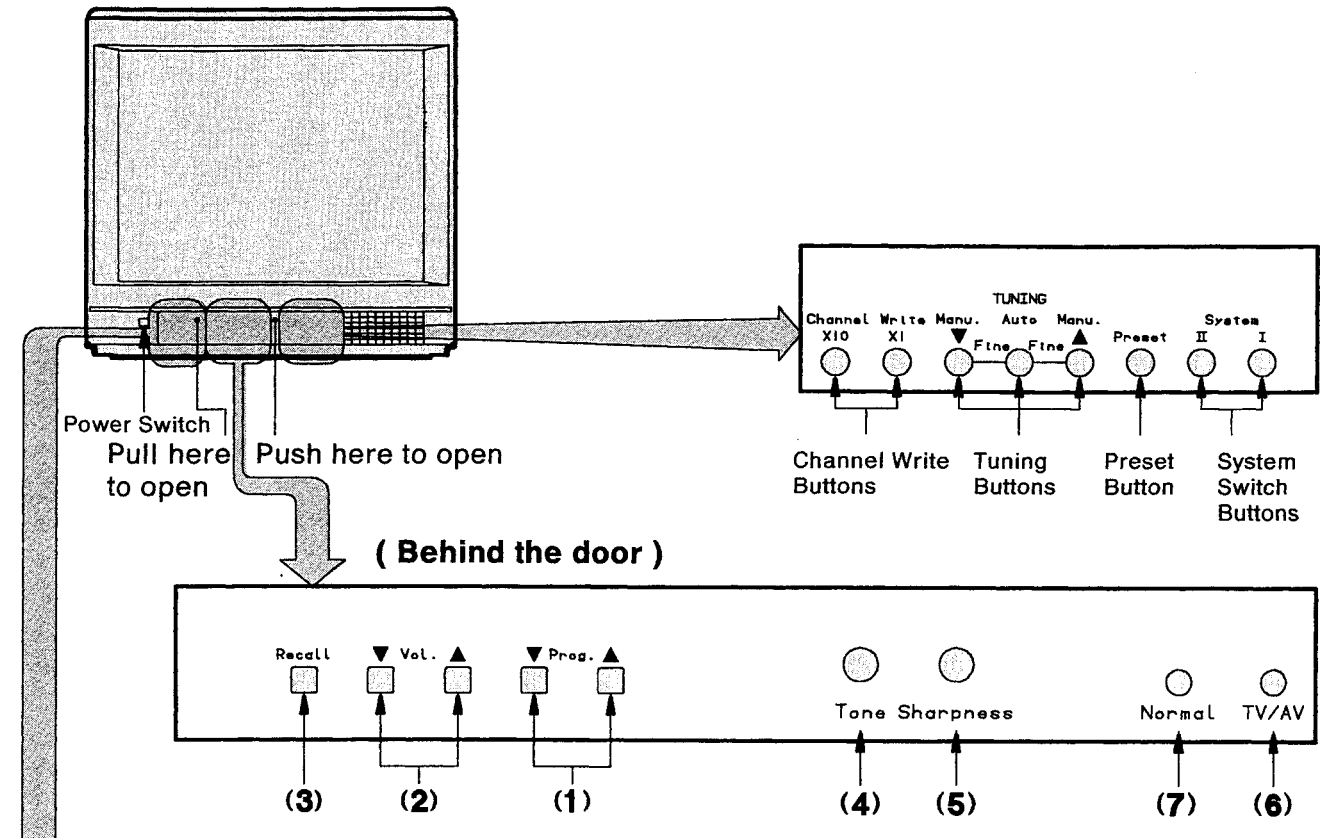


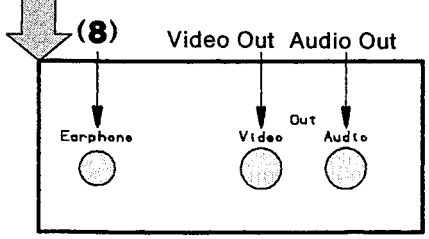
(Rear View)



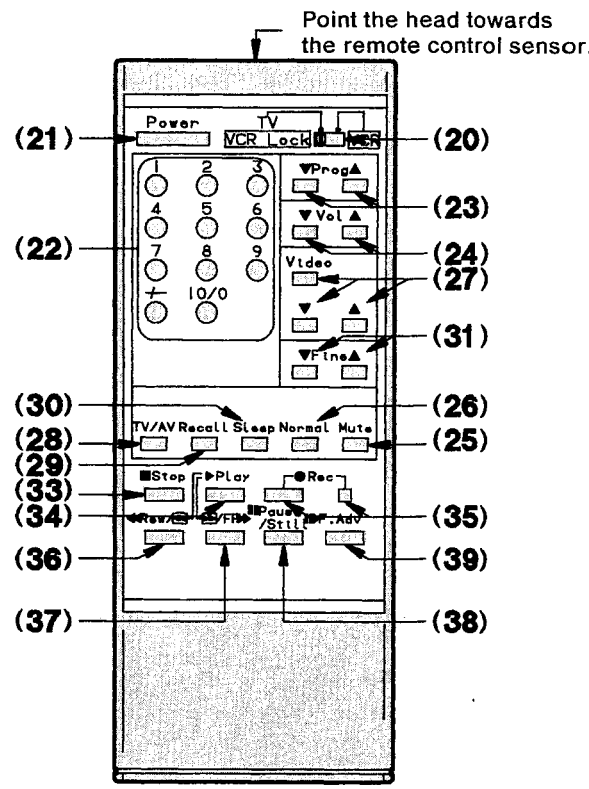
Location of Controls

(Front View) (TC-2671NPSR)

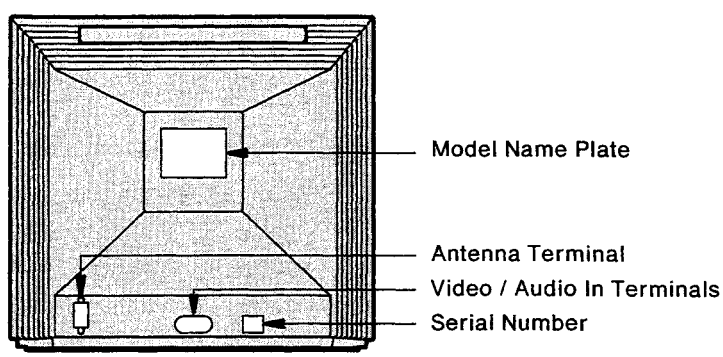




(Remote Control)



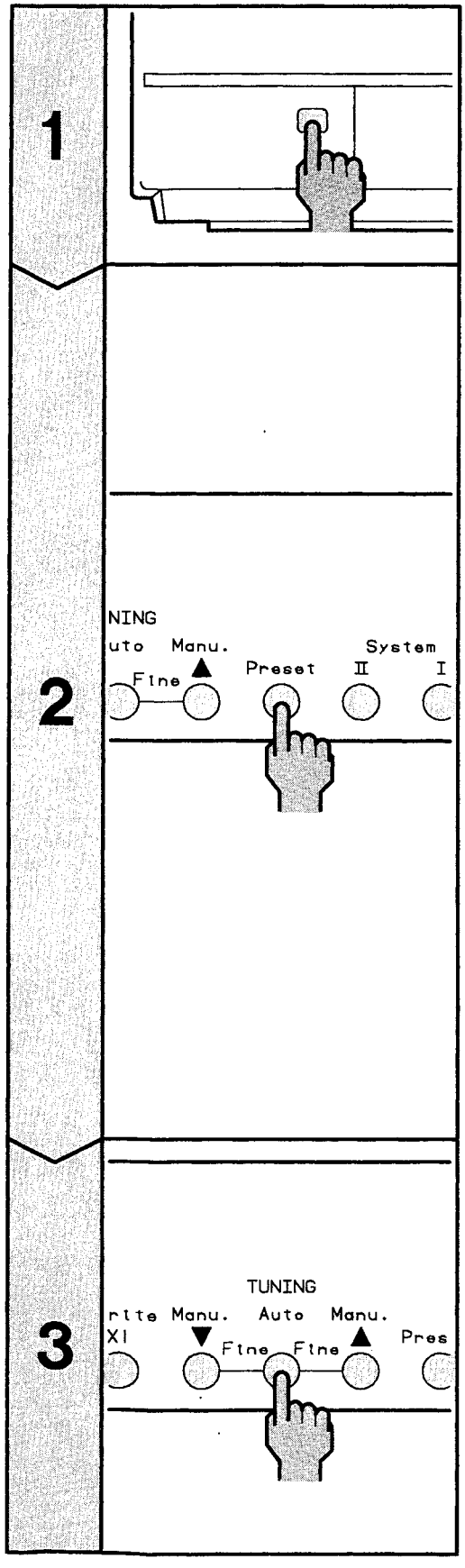
(Rear View)



Tuning Procedure (Automatic Search)

This TV set will search automatically through all of the VHF and UHF bands. After completion, the best tuning position is automatically memorized on each Program Number.

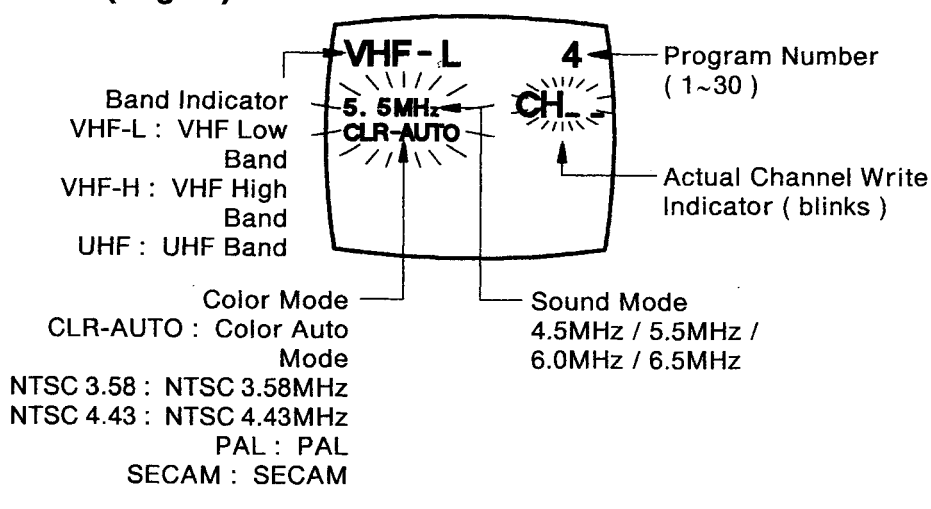
Operation Steps



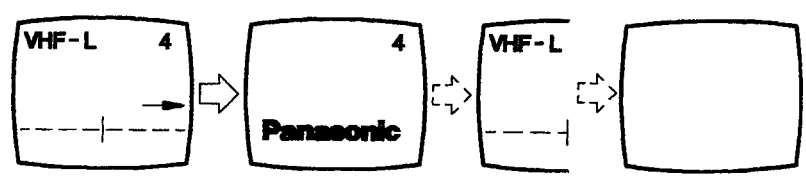
Push the Power Switch on the TV set to turn it on.

Push the "Preset" Button until the on-screen display appears as shown below.

(Fig. 1)



Push the "Auto" Button.



Search — The best tuning position is automatically memorized. — Search for the next station — Completion

Note :

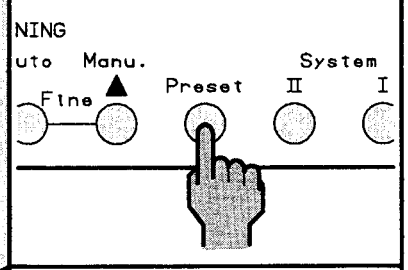
If the sound is not clear or no sound is produsedon a Program Number Position, please refer to the explanation of System Switch II on page 9.

Tuning Procedure (Manual Search)

In case only few TV broadcasting can be received in your area, this Manual Search operation may be preferable.

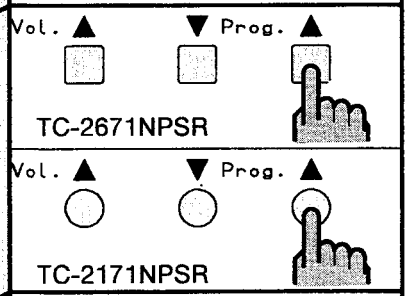
Operation Steps

1



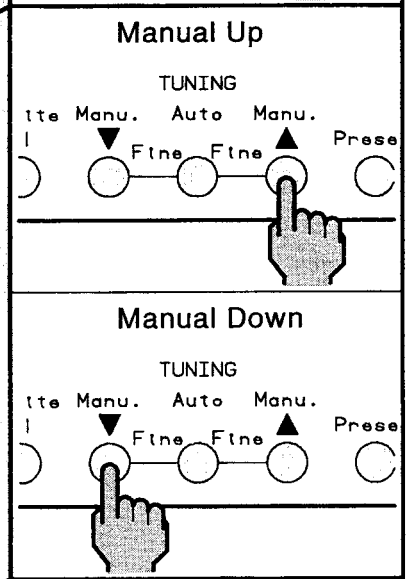
Push the "Preset" Button until the on-screen display appears as shown in Fig. 1 on page 5.

2

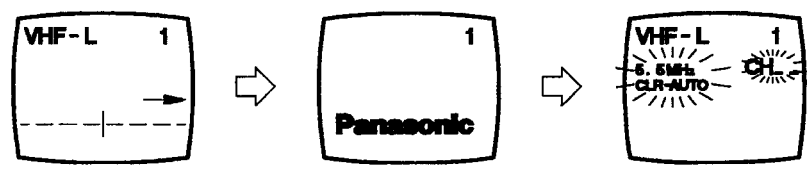


Push either the Program Number Up "▲" or Down "▼" Button to select the desired program number on which you want to tune the TV station of your choice.

3



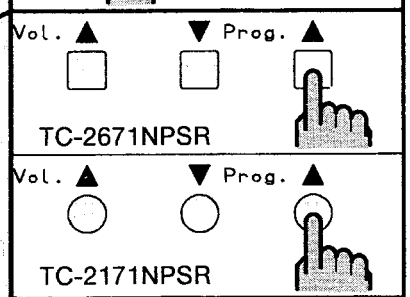
Push either the Manu. Up " ▲ " or Down " ▼ " Button, the TV station broadcasting on the next higher or lower frequency will be automatically tuned and memorized.



Upward Search

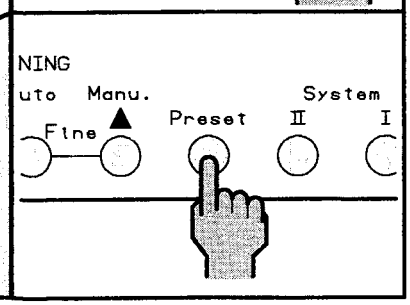
If an undesired TV station is received, push the same button again until the desired TV station is tuned.

4



Repeat steps **2** and **3** to tune all the available TV stations on the remaining program numbers.
(Ensure that a new program number is set (Step 2) before tuning the next station.)

5



After all stations are tuned, push the "Preset" button, to return the TV set to the normal operation mode.

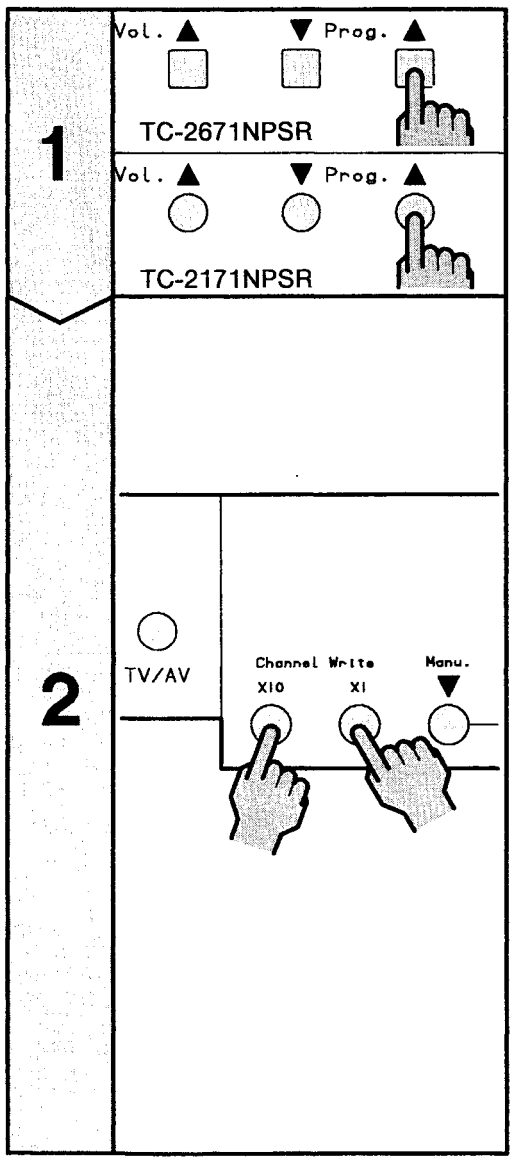
Note :

If the sound is not clear or no sound is produced on a Program Number Position, please refer to the explanation of System Switch II on page 9.

Actual Channel Number Write Operation

This function is used, if you want to write the Actual Channel Number on each Program Number.

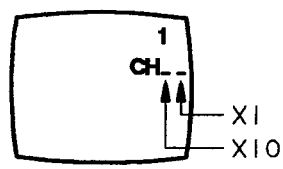
Operation Steps

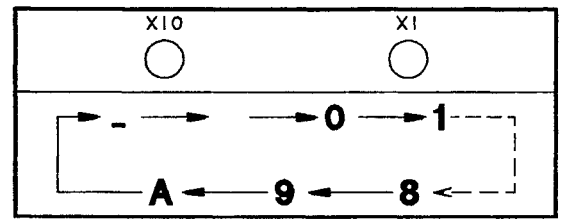


Push the "Prog." Number Up "▲" or Down "▼" Button to select the desired Program Number position.

Push the Channel Write "X1" and "X10" Buttons.

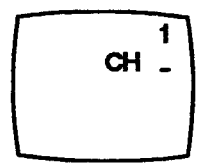
EX :

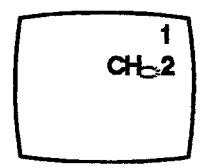




Example : Setting Channel Number "2"

1. Push "X10" Button first and select the " " indication (Non Indication).
2. Push "X1" Button second and select the "2" indication.





Program Number Skip Operation

Program Number Skip Function

This function makes it possible to skip the Program Numbers on which no TV stations are tuned. This function is only effective when selecting TV station by pushing the Program Number Up or Down Button.
(either on the TV set or the Remote Control)

How to Set

1. Select a Program Number you want to skip.
2. Push the Channel Write "X10" and "X1" Buttons to set to "CH00".
   (Please refer to the operation for Actual Channel Write on page 7.)
3. Repeat steps 1 and 2 to activate the skip function on all Program Numbers on which you do not want to tune any TV stations.

How to Cancel

1. Push the Direct Program Number Button on the Remote Control which you want to cancel.
2. Push the Channel Write "X10" and "X1" Buttons to set the any number you want (without 0.0.).

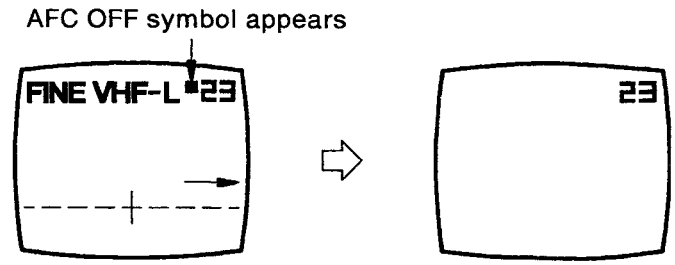
Note :
Refer to page 10 for detailed explanation of Remote Control operation.

Fine Tuning Operation

Fine Tuning

Under normal reception conditions this function is not used.
However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality. To do this, push and hold either the "Manu." Up or Down Button together with the "Auto" Button until picture and sound are improved.

When the above fine tuning operation has been performed, the AFC function is deactivated, so that the " ■ "symbol appears to the left of the Program Number.



AFC Function (Automatic Frequency Control)

If you later want to reset this Program Number to the automatically tuned condition with activated AFC function, perform the following operation steps.

1. Push the "Preset" Button.
2. Push either the "Manu." Up or Down Button to reset to the previously tuned condition.
3. Push the "Preset" Button again.

General Operation

(Refer to diagram on page 2.)

(1) Program Number Up and Down Buttons

Push the Program Number Up "▲" Button to select the higher programs.
Push the Program Number Down "▼" Button to select the lower programs.

(2) Volume Up "▲" and Down "▼" Buttons

The sound level can be adjusted in 63 steps.
Push the Volume Up "▲" Button to increase the sound level.
Push the Volume Down "▼" Button to decrease the sound level.

(3) Recall Button

Push the Recall Button to activate the on-screen display.
First push :
The current Program Number, Color System Mode and Sound Mode will be displayed.
Second push :
The "Panasonic" Indication will be continuously displayed.
Third push :
All Indications will be off.

(4) Tone Control

Turn this control to adjust for the desired sound tonal quality of the sound .

(5) Sharpness Control

Turn this control to adjust for the desired sharpness of the picture.

(6) TV / AV Selection Button

"TV" mode

To receive ordinary broadcasting stations or for VCR playback when the RF output signal is applied to the antenna terminal.

The reception signals can be taken out from the AUDIO OUT and VIDEO OUT terminals for recording or monitoring.

"AV" (Audio-Visual) mode

For VCR playback or monitoring when the composite signals are applied to the VIDEO IN and AUDIO IN terminals.

(7) Normalization Button

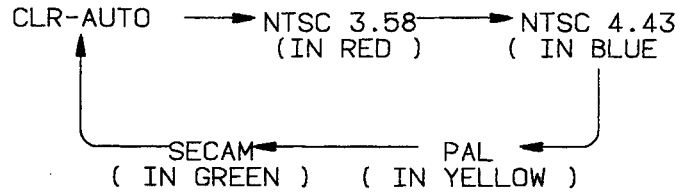
When this button is pushed, the color, brightness and contrast (TINT : NTSC Mode only) are automatically reset to the factory-preset levels.

(8) Earphone

When the earphone plug is inserted into the earphone jack, no sound is heard from the speakers, and you can listen with the earphone only.

System Switch I (Color system)

Normally, the System Switch is automatically set to the Auto Mode if the Automatic Search and / or Manual Search function is used.
If the broadcasting signals is extremely weak or clear picture cannot be obtained on each Program Number position even when the signal is received, push the System I Switch repeatedly until the optimum image can be produced.
The selected system mode on each Program Number position is automatically memorized.



System Switch II (Sound IF)

When the sound is not clear or if no sound is produced on a Program Number position, push the System II Switch repeatedly until optimum sound reproduction is obtained.
The selected Sound IF mode on each program Number position is automatically memorized.

Remote Control Operation (for TV)

(Refer to diagram on page 2.)

The TV / VCR Selector **(20)** should be set to the "TV" position.

(21) Power (Stand-by) Button

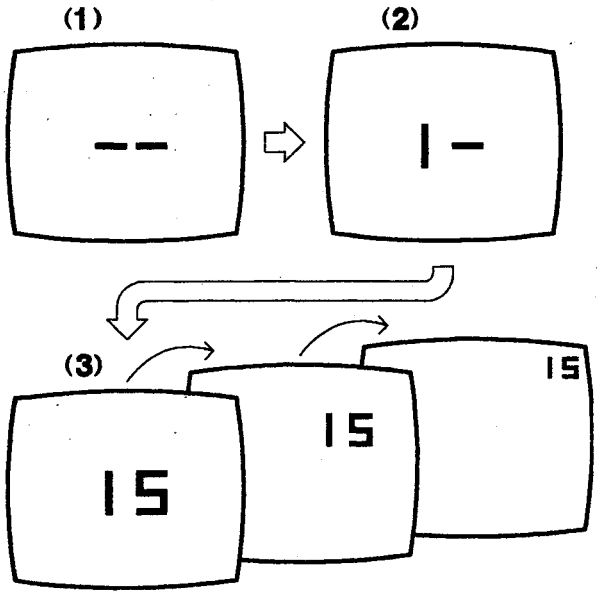
Push this button to turn the TV set off.
(The Stand-by Indicator will light up.)
Push it again to turn the TV set on.

Note :
Do not leave the TV set in the stand-by condition for long periods of time.
It is better to switch it off when you are away for extended periods of time.

(22) Direct Program Selection Buttons

1. One-digit program number
   (Programs No. 1 - 10)
   Ex : Selecting program "8"
   (1) Push "8" button.

2. Two-digit program number
   (Programs No. 11 - 30)
   Ex : Selecting program "15"
   (1) Push the two-digit "-/--" Button.
   (2) Push the "1" Button.
   (3) Push the "5" Button.



(23) Program Number Up and Down Buttons

Push the Program Number Up " ▲ " Button to select the higher programs.
Push the Program Number Down " ▼ " Button to select the lower programs.

(24) Volume Up " ▲ " and Down " ▼ " Buttons

The sound level can be adjusted in 63 steps.
Push the Volume Up " ▲ " Button to increase the sound level.
Push the Volume Down " ▼ " Button to decrease the sound level.

(25) Sound Mute Button

Push this button once to mute the sound.
The on-screen display of the previous sound level will appear in red.
Push the button once again or push the Volume "Up" or "Down" Button to restore the previous sound level.

(26) Normalization Button

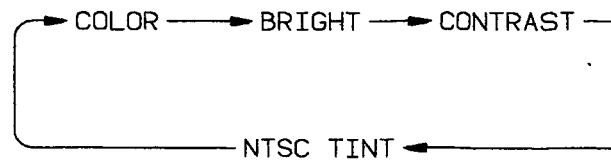
When this button is pushed, the color, brightness and contrast (TINT : NTSC Mode only) are automatically reset to the factory-preset levels and then "NORMAL" Indication will be displayed.

(27) Video Function Select Button

At each push of this button, the indication on the screen will change as follows :

Note : NTSC TINT indicator
When the NTSC signal is received, "NTSC TINT" indication will be displayed on the screen.

On-screen Indication



a) Push the " ▲ " button to increase the level of selected function.
b) Push the " ▼ " button to decrease the level of selected function.

Remote Control Operation (for TV)

(Refer to diagram on page 2.)

(28) TV / AV Selection Button

"TV" mode

To receive ordinary broadcasting stations or for VCR playback when the RF output signal is applied to the antenna terminal.

The reception signals can be taken out from the AUDIO OUT and VIDEO OUT terminals for recording or monitoring.

"AV" (Audio-Visual) mode

For VCR playback or monitoring when the composite signals are applied to the VIDEO IN and AUDIO IN terminals.

(29) Recall Button

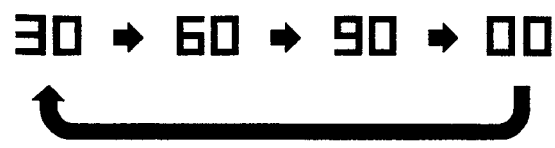
Push the Recall Button to activate the on-screen display.
First push :
The current Program Number, Color System Mode and Sound Mode will be displayed.
Second Push :
All Indications will be off.

(30) Sleep Button

This button can be used to preset a period after which the TV set will switch off automatically.
Push it repeatedly to preset the timer for 30, 60 or 90 minutes.
(The remaining operation time will remain displayed on the screen.)

The off-timer can be cancelled in the following ways.

1. Set the off-timer condition to "00".
2. Turn the TV set off with the Power Button on the Remote Control or the Power Switch on the TV set.



(31) Fine Tuning Button

Push and hold either the Fine tuning Up " ▲" or Down " ▼" button until picture and sound are improved.
Please read "Fine Tuning" and "AFC Function" on page 6 for detailed explanations.

Remote Control Operation (for VCR)

(Refer to diagram on page 2.)

The TV/VCR Selector **(20)** should be set to the "VCR" position.

Note:

This Infrared Remote Control is designed especially for use with certain selected Panasonic VCRs.

Some of VCR models have different functions, so please refer to the VCR's operating instruction booklet to ensure compatibly when using this remote control with a Panasonic VCR.

(33) Stop Button

Push this button to stop the tape.

(34) Play Button

Push this button to start playback of the tape.

(35) Rec (Recording) Button

Push both buttons together to start recording.

(36) Rew (Rewind) / Review Button

Push this button to rewind the tape.

If this button is pushed during playback, the tape will be played back in forward direction at high speed.

(37) FF (Fast-Forward) / Cue Button

Push this button to fast-forward the tape.

If this button is pushed during playback, the tape will be played back in reverse direction at high speed.

(38) Pause / Still Button

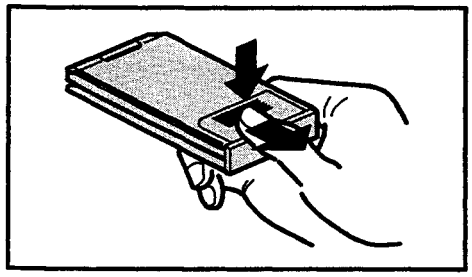
Push this button to stop the tape during playback.
A still-picture will be shown.

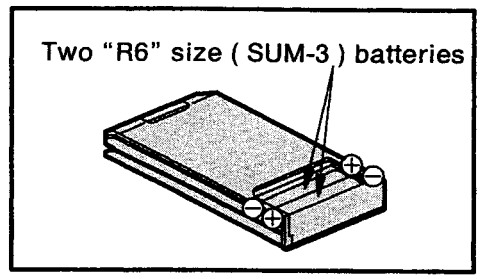
(39) F.Adv. (Frame Advance) Button

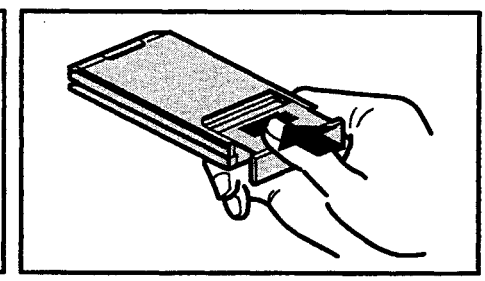
While the VCR is in the still mode, push this button to advance the picture one frame at a time.

Battery Installation and Replacement

Batteries : Use two "R6" size (SUM-3) dry cells.







1. Open the cover.

(Press down and slide the cover out.)

2. Replace the batteries.

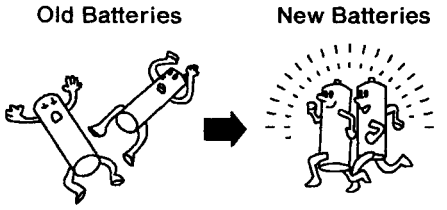
(Insert the batteries with the correct polarity as indicated by the (+) and (−) symbols.)

3. Replace the cover.

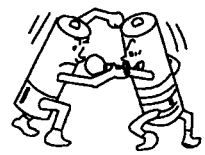
(A snap-lock holds the cover in place.)

Battery Precautions

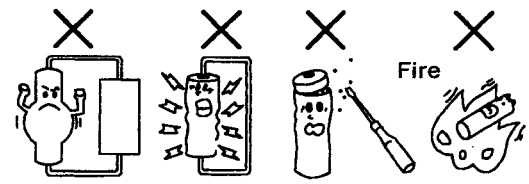
Incorrect use of batteries can cause electrolyte leakage which will corrode the remote control transmitter or cause the batteries to burst. The following precautions must be carefully observed.



Replace both batteries at the same time.
Dispose of them immediately.

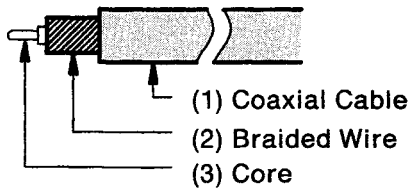


(alkaline with carbon zinc, etc.)

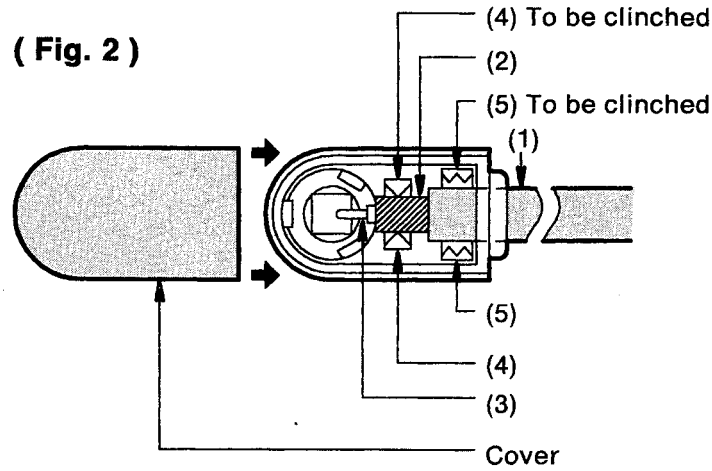


How to Connect an External Antenna

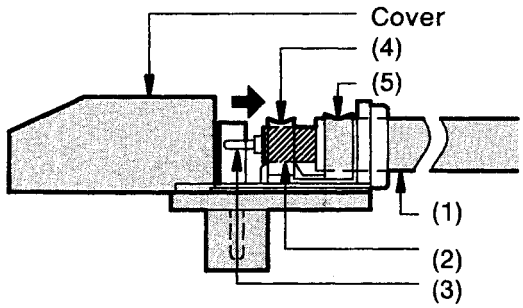
(Fig. 1)



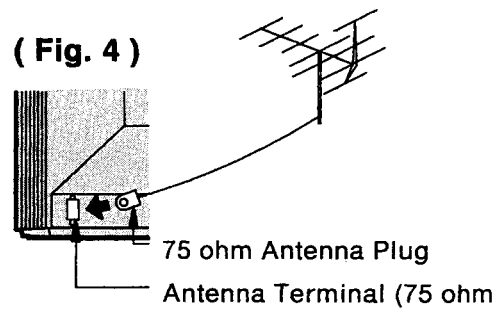
(Fig. 2)



(Fig. 3)

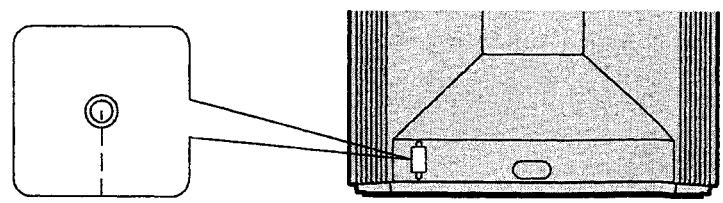


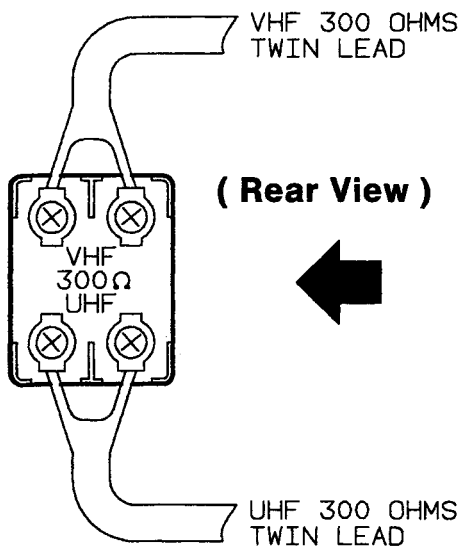
(Fig. 4)

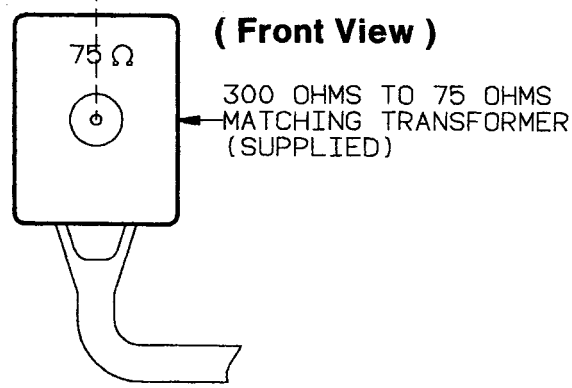


Antenna Connections

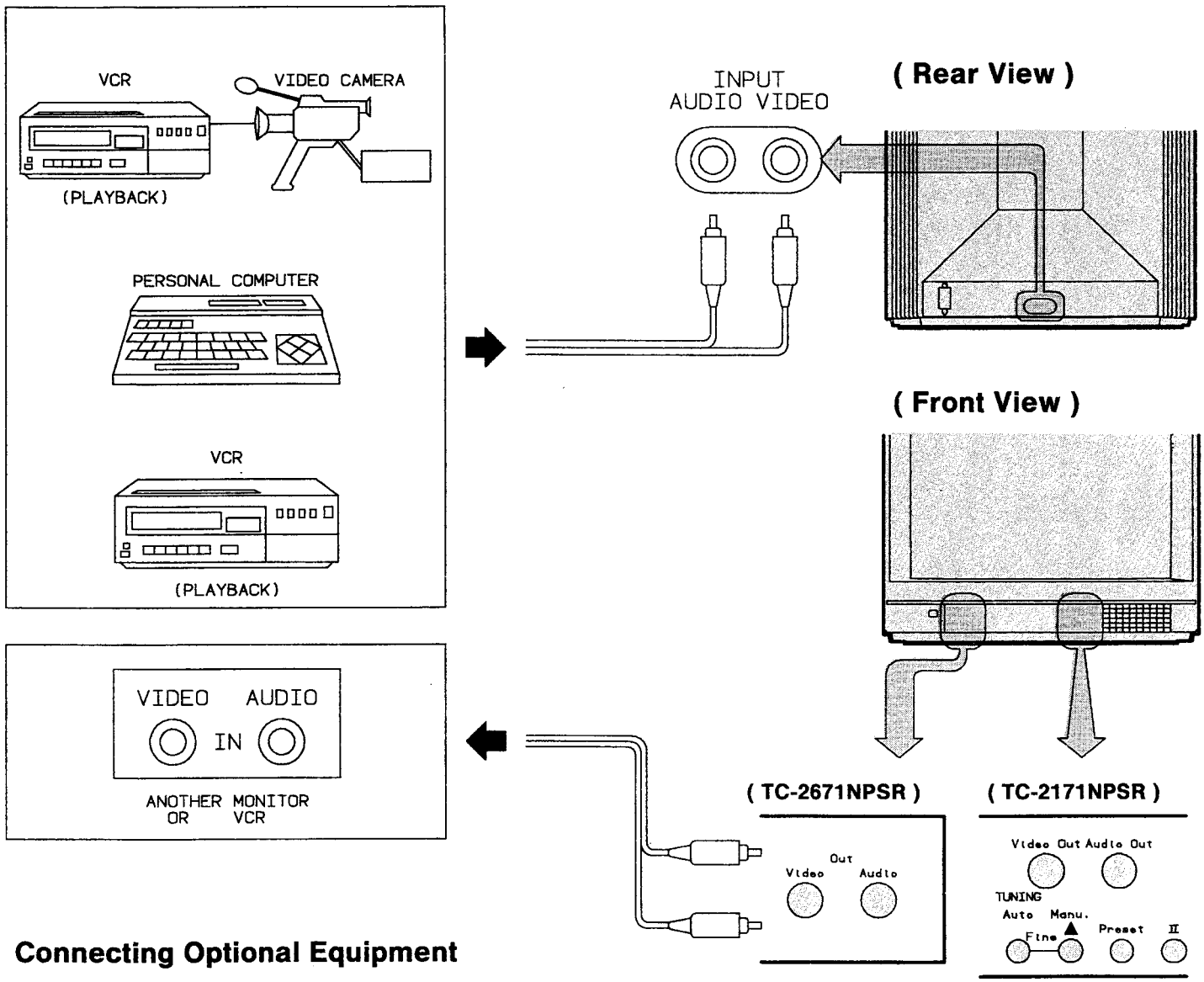
(Rear View)







Connections (Video/Audio Terminals)



Connecting Optional Equipment

Explanation of VIDEO IN/OUT Terminals

This TV set has VIDEO IN/OUT Terminals so that it can be used both as a TV tuner and as a monitor. When the System Selector is set to AUTO and the TV/AV Selector is set to AV, the TV set automatically adjusts for PAL or NTSC system according to the signal fed to the VIDEO IN Terminal. When the NTSC signal is fed to the VIDEO IN Terminal, for example, the TV set automatically adjusts for the NTSC system, the picture appears on the TV screen and this same NTSC signal is delivered from the VIDEO OUT Terminal.

TV mode:

The signal, which is applied to antenna terminal, is taken out from "VIDEO/AUDIO OUT" terminals for monitoring or recording.

AV mode:

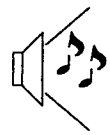
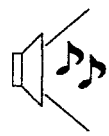
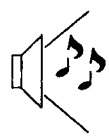
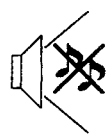
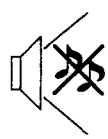
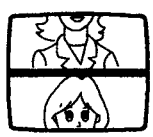
The signal, which is applied to "VIDEO/AUDIO IN" terminals, is taken out from "VIDEO/AUDIO OUT" terminals for monitoring or recording.

Note:

Never connect the same video recorder to both the VIDEO IN and VIDEO OUT Terminals on this TV set, as this would cause malfunction and could lead to accidents.

Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

Symptoms		Checks
Picture	**Sound**	
Snowy Picture	 Noisy Sound	Antenna Location and / or Connection
Multiple Image	 Normal Sound	Antenna Direction and Location
Interference	 Noisy Sound	Electrical Appliances Cars / Motorcycles Fluorescent Lamps
Normal Picture	 No Sound	Volume (Check whether the mute function has been activated on the Remote Control.)
No Picture	 No Sound	Not plugged into AC outlet Not switched on Contrast and Brightness / Volume setting (Check by pushing the Power (Stand-by) Button on the Remote Control.)
No Color	Normal Sound	Color Control
 No Color Rolling Picture H-Line	Noisy Sound	System Switch (or Switches) (Applicable for TV equipped with System Switch.)

Specifications

Power Source : AC Automatic Voltage Selection 120 - 240 V, 50 / 60 Hz

Power Consumption : 110 W **(TC-2171NPSR)**
135 W **(TC-2671NPSR)**
12 W (Stand-by condition)

Receiving Systems :

System	Functions
PAL B, G, I, D, SECAM B, G, D.K., NTSC Standard (with CATV)	Reception of broadcasts and Video playback
NTSC 4.43 / 5.5MHz Modified NTSC NTSC 4.43 / 6.0MHz (Special) NTSC 4.43 / 6.5MHz (Special) NTSC 3.58 / 5.5MHz (Special) NTSC 3.58 / 6.5MHz (Special) SECAM I (Special)	Playback from Special VCRs
PAL 60Hz (Special) SECAM 60Hz (Special) NTSC 50Hz (Special)	Play back from Special Disc Players

Receiving Channels :

Regular TV	**VHF BAND**	
	2 - 12	(PAL / SECAM - B, G, I)
	1 - 3, 6 - 12	(PAL / SECAM - D)
	2 - 9	(SECAM - K1)
	2 - 13	(NTSC - M)
	UHF BAND	
	21 - 69	(PAL / SECAM - B, G)
	21 - 69	(SECAM K)
	13 - 57	(PAL - D)
	14 - 83	(NTSC - M)
CATV	S1 - S3, M1 - M10, U1 - U10	
	Mid BAND	A - 2, A - 1, A - I
	SUPER BAND	J - W

Picture Tube :

(TC-2171NPSR)	**(TC-2671NPSR)**
54 cm (21 inches) measured diagonally, 90° deflection	66 cm (26 inches) measured diagonally, 110° deflection

Audio Output : 2.5 W (Max.) **(TC-2171NPSR)**
3.0 W (Max.) **(TC-2671NPSR)**

Connecting Terminals :

Video In	1 Vp-p, 75Ω
Audio In	Approx. 400 mV
Monitor Out	1 Vp-p, 75Ω
Audio Out	Approx. 100 mV

Dimensions (W x D x H) : 51.0 x 48.0 x 47.0 cm **(TC-2171NPSR)**
62.7 X 45.0 X 56.4 cm **(TC-2671NPSR)**

Weight : 21.8 kg (Net) **(TC-2171NPSR)**
32.5 kg (Net) **(TC-2671NPSR)**

Included Accessories :
AC Plug Adaptor X 1
Remote Control Transmitter X 1
Battery X 2
300 Ω to 75 Ω Matching Transformer X 1
75 Ω Antenna Plug X 1

Country of Origin : Japan

Customer's Record

The serial number of this product can be found on its rear cover. You should note the serial number of this unit in the space provided below and retain this book as a permanent record of your purchase to aid in identification in the event of theft or loss.

Model Number **TC-2171NPSR / TC-2671NPSR** Serial Number _____

Panasonic Tokyo Sales Department
Matsushita Electric Trading Co., Ltd.
World Trade Center Bldg.,
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Tokyo 105 Japan

S0687